

Invoking SYSMAN

- Invoking SYSMAN Online
 - Terminating SYSMAN Online
 - Invoking SYSMAN in Batch Mode
 - Invoking SYSMAN by a Subprogram
-

Invoking SYSMAN Online

There are two methods for invoking the SYSMAN utility:

To invoke SYSMAN online from any Natural library

- Enter the command SYSMAN.
The current setting of the system variable *LIBRARY-ID is passed to SYSMAN and used as the default source library for processing of programming objects.
If you issue a Natural system command from SYSMAN, the command will apply to the library from which SYSMAN has been invoked.

To invoke SYSMAN online from the Natural Main Menu

1. Select Maintenance and Transfer Utilities. A corresponding menu is displayed.
2. Select Transfer Objects to Other Libraries.

Terminating SYSMAN Online

The SYSMAN utility is terminated with a period (.), with PF3 or with CLEAR from the SYSMAN main menu; or with a period (.) in the command line of any other SYSMAN menu.

Do not terminate the SYSMAN utility with the terminal command %%, because the environment may not be reset correctly.

Invoking SYSMAN in Batch Mode

The SYSMAN utility is invoked in batch mode in the same way as it is invoked online; however, one or more direct command strings must follow the SYSMAN command. Direct commands for each SYSMAN function as it applies to a specific object are included in sections discussing processing of specific Natural objects. If you want to execute other Natural commands after the SYSMAN command(s), you must first terminate SYSMAN by using the commands END or Quit.

There are two ways to enter direct commands:

- The direct command string follows the SYSMAN command in the same input line; each parameter in the command string can be delimited by a blank character instead of the delimiter.
- The direct command string follows the SYSMAN command in the next input line; each parameter in the command string must be delimited by the delimiter and **not** by a blank character. If the direct command string is longer than one single line, the CF character (see also the session parameter CF as described in the Natural Parameter Reference documentation) must be placed at the end of the line to continue with the direct command in the next line.

Invoking SYSMAN by a Subprogram

MAINUSER is a subprogram which allows you to perform the various SYSMAN functions directly from any user-written object (subroutine, program or subprogram) without going through the normal steps of invoking SYSMAN. Upon completion of processing of the SYSMAN functions, the utility is terminated and control is returned to the program, subprogram or subroutine from which the request was issued. MAINUSER can be used in either online or batch mode.

Note:

The maximum DATSIZE used by SYSMAN during processing is 32 KB, depending on the actual request issued.

MAINUSER must not be located in a user library. You must therefore copy it to library SYSTEM on the files FNAT or FUSER or to any SYS-prefixed library which is the steplib for the application.

MAINUSER is invoked with the CALLNAT statement and its relevant parameters (see the CALLNAT statement in the Natural Statements documentation). The parameters are:

Parameter	Explanation
Command (A250)	The direct command string to be executed by SYSMAN.
Error (N4)	The return code issued by SYSMAN at the end of processing to indicate a normal end of processing or an error.
Message (A72)	The message corresponding to the error given online.
Library (A8)	The library containing SYSMAN. If not specified, the default is SYSMAN.

MAINUSER is invoked as follows:

```
CALLNAT 'MAINUSER' command error message library
```

An example of a callable routine is the program MAINCALL in the library SYSMAN.

MAINUSER must **not** be invoked from within the library SYSMAN.